



NOAA Restoration Center

Green Valley French Drain

Project Description

A 120-foot French drain will be installed in Green Valley Creek to control subsurface water flows that cause stream bank soils to fail. The 6-foot deep/18-inch wide drain will capture water and pipe it down to the stream through a 3-inch flex hose. Trenching will be done by a backhoe and success will be measured by stream bank stability during major storm events.

Project Nickname	Green Valley (FAF-00)		
Location	Sebastopol, Sonoma County, CA, 95472 SWR		
Program	Community-based Restoration	Congressional District	CA 6
Lat, Long Coordinates	-122.9337, 38.458	Land Ownership	Private
Implementation Start Date	01-AUG-00	Implementation End Date	15-SEP-01
River Basin	Green Valley Creek	HUC	
Geographic Identifier	Russian River	USGS Topo Quad	Camp Meeker
Project Status	Implementation Complete	Project Type	Restoration
Project Status Description			
Landmark	Just south of Green Valley road bridge over Green Valley Creek		
Number of Volunteers	0	Volunteer Hours	0
Volunteer Description			
Proposed Project?	Project Closed?	Y	FY Completed 2002

Habitat Information

Type	Acres Created	Acres Re-established	Acres Rehabilitated	Acres Enhanced	Acres Protected	Stream Miles	# Plants/ Animals
stream/river channel		.25					10 plants

Species Information

Commonname	Genus	Species	Population Name	NMFS Status	Species Type
Salmon, coho	<i>Oncorhynchus</i>	<i>kisutch</i>	Central California Coast	Threatened	animal
Trout, steelhead	<i>Oncorhynchus</i>	<i>mykiss</i>	Central California Coast	Threatened	animal

Partners

Trout Unlimited
FishAmerica Foundation

Restoration Techniques

streambank stabilization
hydrologic control structures

Contacts

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NOAA

NOAA Involvement

source of funding

Monitoring Information

Characteristic	Type
Additional Info	
bank stability	

Funding Information

Funding Mechanism	FY Awarded	NOAA Contribution	Partnership Contribution	Total Partnership Contribution
Fish America Foundation	2000	\$643	\$642	\$1,285
TOTALS		\$643	\$642	\$1,285

Other Non-Federal \$ **Other Federal \$** **Total Project Cost**

Funding Recipient Trout Unlimited

Funding Comments***Project Abstract***

Green Valley Creek is a major tributary to the lower Russian River. The Green Valley watershed drains approximately 27 square miles of western Sonoma County and contains important spawning and rearing habitat for steelhead and coho salmon. Past biological surveys have documented steelhead consistently, and coho intermittently, throughout the watershed. In 1995, the Department of Fish and Game completed habitat typing surveys for Green Valley Creek which identified numerous problem areas that limit habitat values for anadromous fish. These included an insufficient amount of woody debris and a spawning gravel imbeddedness caused by stream bank erosion sources. This erosion site has been actively contributing sediment into Green Valley Creek for approximately 10 years. Efforts were made to stabilize the site but failed due to excessive storm water runoff that percolated the site.

In order to control subsurface waterflows that cause the stream bank soils to fail, Trout Unlimited has installed 120 feet of French drain. The drain is approximately 6 feet deep by 18 inches wide and is filled with 1.5 inch drain rock. Water captured in the French drain is piped down to the stream through a 3 inch flex hose.